

POLYESTER RESIN

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Abstract

PROBLEM TO BE SOLVED: To obtain a polyester resin obtained by using a titanium compound excellent in environmental safeguard as a polycondensation catalyst, having properties capable of being deactivated by a heating treatment in water, as a result, having good melt stability and hardly staining the mold because of reducing the increase of a cyclic oligomer after the molding.

SOLUTION: This polyester resin capable of being produced by polymerizing an aromatic dicarboxylic acid and ethylene glycol as essential components in the presence of a titanium compound in a proportion of 0.002-1.0 mol per 1 t polyester resin expressed in terms of titanium atom (Ti) satisfies the inequality: $(\eta_3 - \eta_1) / (\eta_2 - \eta_1) < 0.90$ [η_1 is an intrinsic viscosity of the polyester resin; η_2 is an intrinsic viscosity of the polyester resin after heat-treating the resin with the intrinsic viscosity η_1 in nitrogen gas flow at 210 deg.C for 10 h; and η_3 is the intrinsic viscosity of the polyester resin after heat-treating the polyester resin having the intrinsic viscosity η_1 and treated in water at 95 deg.C for 4 h, in nitrogen gas flow at 210 deg.C for 10 h].

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